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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/622,689	07/21/2003	Shaoxing Lu	237687US0	4413	
22850 7	590 11/29/2004		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			PENG, KUO LIANG		
ALEXANDRIA			ART UNIT PAPER NUMBE		
			1712		
				DATE MAILED: 11/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	2			
	10/622,689	LU ET AL.	41			
Office Action Summary	Examiner	Art Unit				
	Kuo-Liang Peng	1712				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with t	he correspondence addr	ress			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS	be timely filed i) days will be considered timely. from the mailing date of this comi	munication.			
Status						
1) Responsive to communication(s) filed on 10/1		•	•			
<u></u>	s action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under <i>I</i>	nce except for formal matters, Ex parte Quayle, 1935 C.D. 11	prosecution as to the m. 453 O.G. 213.	nerits is			
Disposition of Claims		, , , , , , , , , , , , , , , , , , , ,				
4) Claim(s) <u>1-21</u> is/are pending in the application						
4a) Of the above claim(s) 1,2,5-9,13-17,20 and 21 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>3,4,10-12,18 and 19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc		ne Examiner				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct			1.121(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Off	ice Action or form PTO-	·152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119)(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	. ,	. (4) (4) (7)				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applic	ation No				
3. Copies of the certified copies of the prior	ity documents have been rece	eived in this National Sta	age			
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not rece	ived.				
Attach was a water						
Attachment(s) 1) Notice of References Cited (PTO-892)	—					
2) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Mai	ary (PTO-413) l Date.				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/13/04.		al Patent Application (PTO-15)	2)			

Art Unit: 1712

DETAILED ACTION

- 1. The following Office action is based on the interpretation of chemical formulae set forth in Claims 1, 3 and 5 being the copolymers where in the backbone of the copolymers, the polysiloxane block(s) is/are connected to another polysiloxane block(s) and/or oxyalkylene block(s) via the amide linkage(s) of $(CH_2)_xC(O)NH(CH_2)_xNH(O)C(CH_2)_x$.
- 2. Applicant's election with traverse of Claims 3-4, 10-12 and 18-19 in the response to restriction requirement filed on October 13, 2004 is acknowledged. The traversal is on the ground(s) that a) Group II does not have a different effect from Groups I and III; and b) there is no burden in searching and/or examining all claims together because the classification of Group II and the classifications of Groups I and III overlaps. This is not found persuasive because of the following reasons:

For a), Group II is directed to a poly(oxyalkylene-b-polysiloxane), while Group I is directed to a poly(oxyalkylene-g-polysiloxane) and Group III is directed to a poly(oxyalkylene-b/g-polysiloxane). Note that molecular architecture of a copolymer containing a polyoxyalkylene blocks is quite different from those of polymers containing polyoxyalkylene grafts. Especially, in the present invention,

Art Unit: 1712

the polyoxyalkylene grafts are grafted to the polymer backbone via Si-C bonds, while the polyoxyalkylene blocks are built into the polymer backbone via amide linkages. The properties of them are different.

For b), although the classifications of these groups seem to overlap,

Applicants should notice that in the present invention, the requirements for
searching polyoxyalkylene grafts and polyoxyalkylene blocks are totally different.

The formation of polyoxyalkylene grafts via Si-C bonds typically requires the
hydrosilylation between polyoxyalkylene containing an unsaturated carbon-carbon
bond and a polysiloxane containing Si-H groups. On the other hand, the formation
of polyoxyalkylene blocks via amide linkages typically requires the condensation
reaction between a polyoxyalkylene end-capped carboxylic groups and a diamine
in the presence of a functional polysiloxane. The reaction mechanisms are totally
different. Therefore, it would place on the Office undue burden in searching
and/or examining all claims together.

Therefore, Claims 1-2, 5-9, 13-17 and 20-21 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

The requirement is still deemed proper and is therefore made FINAL.

Art Unit: 1712

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 3-4, 10-12 ad 18-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Lu (US 2004/0001799).

Lu discloses a copolymer represented by formula (I) containing oxyalkylene moieties in the backbone, which reads on the copolymer of the present invention. The composition of the present invention may be in a form chosen from a paste, a solid, a gel, and a cream. It may be an emulsion, such as an oil-in-water or water-in-oil emulsion, a multiple emulsion, such as an oil-in-water-in-oil emulsion or a water-in-oil-in-water emulsion, or a solid, rigid or supple gel, including anhydrous gels. In one embodiment, the composition of the invention is anhydrous. The

Art Unit: 1712

composition of the invention may, for example, comprise an external or continuous fatty phase. In another embodiment, the composition of the invention is transparent or clear, including for example, a composition without pigments. The composition can also be in a form chosen from a translucent anhydrous gel and a transparent anhydrous gel. The composition can also be a molded composition or cast as a stick or a dish. The composition in one embodiment is a solid such as a molded stick or a poured stick. The copolymer used as thickening agents in base and cosmetic compositions of the present invention contain both siloxane units and amide linkages. The siloxane units provide compatibility with the silicone fluid (for example with the cyclomethicones), while the amide linkages and the spacing and selection of the locations of the amide linkages facilitate gelation and the formation of cosmetic products. In the base composition, the polyamide gelling agent can be used in an amount of 0.1-80 percent by weight, more particularly 0.5-30 percent by weight and most particularly 1-20 percent by weight. It is preferred that the gellant not exceed 50 percent by weight of the base composition. The silicone fluid portion is in the range of 5-95 percent by weight, more particularly 10-80 percent by weight, even more particularly 20-80 percent by weight. Optionally, additional solvents, mixtures of solvents or cosmetic additives may be added to the base composition.

Art Unit: 1712

Suitable additional solvents are those which are either themselves or in mixtures with other solvents miscible in the originally selected silicone fluid (for example, C14-C20 fatty alcohols, isopropyl myristate, and PPG-3 myristyl ether). The siloxane-based polyamide gelling agent can consist of one or more polyamides as described above (or a mixture of these polymers) as the sole gelling agent, or can contain the polyamide admixed with other thickening agents (including conventional gelling agents). The siloxane units provide compatibility with the silicone fluids, while the amide linkages and the spacing and selection of the locations of the amide linkages facilitate gelation and the formation of cosmetic products. ([0019], [0037]-[0051], [0071], [0215]-0217] and Examples)

4. Claims 3-4 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Wittmann (US 4 822 852).

Wittmann discloses a composition comprising a copolyamide of formula (I). The polyamides containing polydiorganosiloxane carbonamide units may be prepared by partly replacing the dicarboxylic acid(s)/derivative(s) and/or the diamine or the lactam or the aminocarboxylic acid in processes known per se for the production of polyamides, for example melt condensation or interfacial condensation of dicarboxylic acids or derivatives thereof and diamines or of

Art Unit: 1712

aminocarboxylic acids and lactams, by corresponding amino- or carboxylterminated, so-called organofunctional polydiorganosiloxane compounds. (col. 2, lines 49-59) The polydiorganosiloxane units may be attached either to one another and/or to the polyamide-forming components (including the polyether diamines) through the carbonamide groups. The use of the organofunctional polydiorganosiloxane components is characterized in that, after the incorporation reaction, only a very small proportion can be extracted from the polyamide with a good solvent for the starting siloxane. (col. 5, lines 16-23) These polyoxyalkylene ether diamines may be prepared, for example, by amination of polyoxyalkylene etherdiols under pressure, by addition of acrylonitrile to polyetherdiols and subsequent reduction of the nitrile group, by alkali-catalyzed hydrolysis of NCO prepolymers of polyetherdiols and (cyclo)aliphatic diisocyanates or by other known methods. Examples of polyether diamines eminently suitable for use in accordance with the invention are the commercially available Jeffamines[®]. (col. 4, lines 57-66)

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuo-Liang Peng whose telephone number is

(571) 272-1091. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

klp November 23, 2004

> KUOLLANG PENG PRIMARY EXAMINER

Kuo-Liang Peng Primary Examiner Art Unit 1712